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Patent Abstracts of Japan

FP1084PCT-EP Sup.ESR Cited Ref③/3

PUBLICATION NUMBER : 2001151749  
PUBLICATION DATE : 05-06-01

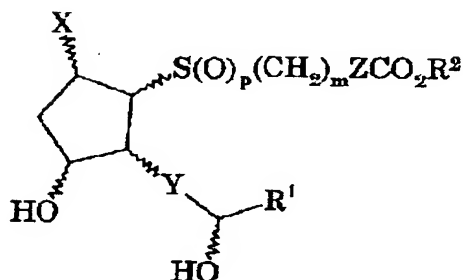
APPLICATION DATE : 24-11-99  
APPLICATION NUMBER : 11333280

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INT.CL. : C07C405/00 A61K 31/5575 A61P 9/00  
A61P 27/06 A61P 43/00

TITLE : PROSTAGLANDIN DERIVATIVE



ABSTRACT : PROBLEM TO BE SOLVED: To provide a novel PG derivative that has the PGD2-like agonist action and the sleep-inducing action.

SOLUTION: This prostaglandin derivative is represented by the formula (wherein X is  $\alpha$  or  $\beta$ -substituted halogen atom; Y is ethylene, vinylene or ethynylene group; Z is ethylene, vinylene, ethynylene group and  $S(O)_p(CH_2)_n$ ; R1 is a 3-10C cycloalkyl, a 1-4C alkyl-substituted 3-10C cycloalkyl, a 3-10C cyclo-alkyl-substituted 1-4C alkyl, a 5-10C alkyl, a 5-10C alkenyl group, 5-10C alkynyl group or a bridge-cyclic hydrocarbon group; R2 is H, a 1-10C alkyl, or a 3-10C cycloalkyl; (n) is an integer of 1-3; and (p) is 0 or 1 or 2) and also includes the pharmaceutically acceptable salts thereof or their hydrates.

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